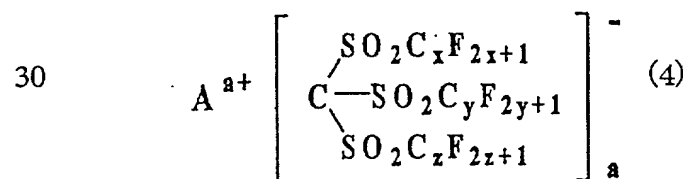
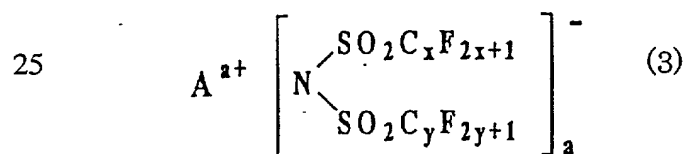
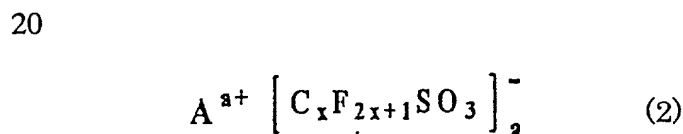
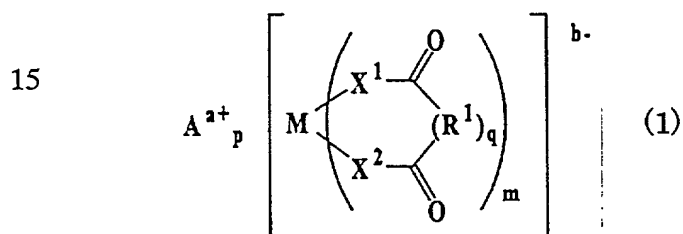


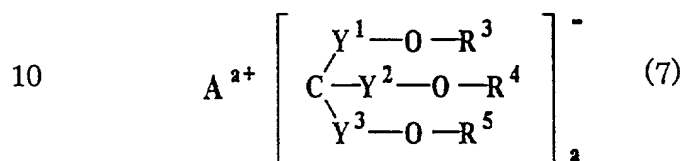
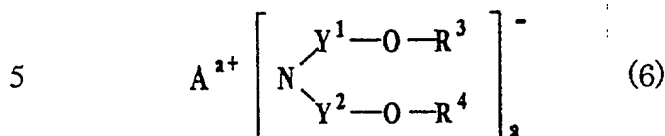
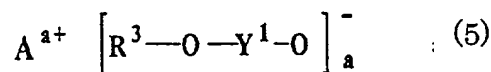
WHAT IS CLAIMED IS:

1. An electrolyte for an electrochemical device, said electrolyte comprising:

5 a first compound that is an ionic metal complex represented by the general formula (1); and

at least one compound selected from the group consisting of second to fourth compounds respectively represented by the general formulas (2) to (4), fifth to ninth compounds respectively represented by the general formulas $A^{a+}(PF_6)_a$, $A^{a+}(ClO_4)_a$, $A^{a+}(BF_4)_a$, $A^{a+}(AsF_6)_a$, and $A^{a+}(SbF_6)_a$, and tenth to twelfth compounds respectively represented by the general formulas (5) to (7),





wherein M is a transition metal selected from the group
 15 consisting of elements of groups 3-11 of the periodic table, or an
 element selected from the group consisting of elements of groups
 12-15 of the periodic table;

A^{a+} represents a metal ion, hydrogen ion or onium ion;

a represents a number from 1 to 3; b represents a number
 20 from 1 to 3; p is b/a; m represents a number from 1 to 4; q is 0 or 1;

R^1 represents a C_1 - C_{10} alkylene group, C_1 - C_{10} halogenated
 alkylene group, C_4 - C_{20} arylene group or C_4 - C_{20} halogenated
 arylene group, these alkylene and arylene groups of said R^1
 optionally having substituents and hetero atoms, one of said R^1
 25 being optionally bonded with another of said R^1 ;

each of X^1 and X^2 independently represents O, S or NR^2 ;

R^2 represents a hydrogen, C_1 - C_{10} alkyl group, C_1 - C_{10}
 halogenated alkyl group, C_4 - C_{20} aryl group or C_4 - C_{20} halogenated
 aryl group, these alkyl and aryl groups of said R^2 optionally
 30 having substituents and hetero atoms, at least two of said R^2
 being optionally bonded together to form a ring;

each of x, y and z independently represents a number from 1
 to 8

each of Y¹, Y² and Y³ independently represents a SO₂ group or CO group; and

each of R³, R⁴ and R⁵ independently represents an electron-attractive organic substituent optionally having a substituent or a hetero atom, at least two of said R³, R⁴ and R⁵ being optionally bonded together to form a ring, at least one of said R³, R⁴ and R⁵ being optionally bonded with an adjacent molecule to form a polymer.

2. An electrolyte according to claim 1, wherein said at least compound is selected from the group consisting of said second to ninth compounds.
3. An electrolyte according to claim 1, wherein said at least one compound is selected from the group consisting of said tenth to twelfth compounds.
4. An electrolyte according to claim 1, wherein said M is an element selected from the group consisting of Al, B, V, Ti, Si, Zr, Ge, Sn, Cu, Y, Zn, Ga, Nb, Ta, Bi, P, As, Sc, Hf, and Sb.
5. An electrolyte according to claim 4, wherein said M is an element selected from the group consisting of Al, B and P.
6. An electrolyte according to claim 1, wherein said A^{a+} is a lithium ion or quaternary ammonium ion.
7. An electrolyte according to claim 1, wherein said q of the general formula (1) is 0.
8. An electrolyte according to claim 1, wherein a molar ratio of said first compound to said at least one compound is 5:95 to 95:5.

9. An ion conductor for an electrochemical device, said ion conductor comprising:

an electrolyte according to claim 1; and

5 a member selected from the group consisting of a nonaqueous solvent, a polymer and a mixture thereof, said member dissolving therein said electrolyte.

10 10. An ion conductor according to claim 9, wherein said nonaqueous solvent is an aprotic solvent, and thereby said ion conductor is an electrolytic solution.

15 11. An ion conductor according to claim 10, wherein said nonaqueous solvent is a mixture of a first aprotic solvent having a dielectric constant of 20 or greater and a second aprotic solvent having a dielectric constant of 10 or less.

12. An ion conductor according to claim 9, wherein said A^{a+} is a lithium ion.

20 13. An ion conductor according to claim 9, wherein said polymer is an aprotic polymer, and thereby said ion conductor is a solid electrolyte.

25 14. An ion conductor according to claim 9, which has a concentration of said electrolyte within a range of from 0.1 mol/dm³ to a saturated concentration.

30 15. An ion conductor according to claim 14, wherein said concentration is within a range of from 0.5 mol/dm³ to 1.5 mol/dm³.

16. An electrochemical device comprising:
(a) first and second electrodes; and

(b) an ion conductor receiving therein said first and second electrodes, said ion conductor comprising:

(1) an electrolyte according to claim 1; and

5 (2) a member selected from the group consisting of a nonaqueous solvent, a polymer and a mixture thereof, said member dissolving therein said electrolyte.

10 17. An electrochemical device according to claim 16, which is a cell or an electrical double-layer capacitor.

18. An electrochemical device according to claim 17, wherein said cell is a lithium cell or a lithium ion cell.